

WHAT IS CLAIMED IS:

1. A waterproof structure that is provided on a device, comprising:

5 a waterproof member that is interposed between a first member and a second member and is put in close contact with the first member and the second member by elastic deformation, thereby effecting waterproofing, wherein the waterproof member is a pipe that is formed by extrusion-molding a material with elasticity and anti-permeation properties, terminal-end faces of the pipe are disposed to be opposed to each other with their centers being aligned, and the pipe is extended by pressure that acts when the first member and the second member are engaged or attached to each other, 10 whereby the terminal-end faces of the pipe are brought into close contact with each other and waterproofing is effected. 15

2. The waterproof structure according to claim 1, wherein the waterproof member is formed by extrusion-molding a rubber or a resin, and the waterproof member has one of a perfect circular shape, a rectangular shape, a polygonal shape and an oval shape. 20

3. The waterproof structure according to claim 1, wherein the pipe has terminal-end faces at both ends, 25 the waterproof structure includes a groove as a grooved portion that is formed in the first member in an annular shape, and a projection portion that is

formed on the second member for engagement with the groove, and

5 the pipe is fitted in the groove as the grooved portion such that the terminal-end faces of the pipe are opposed to each other at a distance with their centers being aligned, and the pipe is extended along the groove as the grooved portion when an outer peripheral surface of the pipe is pressed by engagement between the first member and the second member, whereby
10 the terminal-end faces of the pipe are brought into close contact with each other.

4. A waterproof structure that is provided on a device, comprising:

15 a waterproof member that is interposed between a first member and a second member and is put in close contact with the first member and the second member by elastic deformation, thereby effecting waterproofing,

20 wherein the waterproof member is a pipe that is formed by extrusion-molding a material with elasticity and anti-permeation properties, terminal-end portions of the pipe are disposed to be adjacent to each other with their centers being made parallel, and an outer periphery of the pipe is collapsed by pressure that acts when the first member and the second member are
25 engaged or attached to each other, whereby the side faces of the terminal-end portions of the pipe are brought into close contact with each other and the pipe

is brought into close contact with the first member and the second member, thus effecting waterproofing.

5 5. The waterproof structure according to claim 2, wherein an annular groove as a grooved portion is formed in the first member, the pipe is fitted in the groove, and terminal-end portions of the pipe are disposed to be adjacent to each other with their centers being made parallel,

10 a projection portion, which is engaged with the groove as the grooved portion, is formed on the second member, and

15 when a pressure is applied to an outer periphery of the pipe by engagement between the first member and the second member, the pipe is brought into close contact with the first member and the second member and side faces of the terminal-end portions of the pipe are brought into close contact with each other, thereby effecting waterproofing.

20 6. A waterproof structure that is provided on a device, comprising:

 a waterproof member that is interposed between a first member and a second member and is put in close contact with the first member and the second member by elastic deformation, thereby effecting waterproofing,

25 wherein the waterproof member is a pipe that is formed by extrusion-molding a material with elasticity and anti-permeation properties, and has terminal-end

faces at both ends,

the first member is formed as an outer L-rib
having a close-contact face at a wall face thereof, and
the second member is formed as an inner L-rib that is
5 engaged with the outer L-rib, and

the pipe is fitted on an inner wall face of the
outer L-rib such that the terminal-end faces of the
pipe are opposed to each other at a distance with their
centers being aligned, and the pipe is extended along
10 the inner wall face of the outer L-rib when an outer
peripheral surface of the pipe is pressed by engagement
between the first member and the second member, whereby
the terminal-end faces of the pipe are brought into
close contact with each other.

15 7. The waterproof structure according to claim 1,
wherein the pipe has terminal-end faces at both ends,

the first member has a U-groove that is formed in
an annular shape,

the second member has a flat surface which opposes
20 the first member;

the pipe is disposed in the U-groove such that the
terminal-end faces of the pipe are opposed to each
other at a distance with their centers being aligned,
and the pipe extends along the U-groove when the pipe
25 is pressed as the first member and the second member
are made to contact each other, whereby the terminal-
end faces of the pipe are brought into close contact

with each other.

8. The waterproof structure according to claim 1,
wherein the pipe has terminal-end faces at both ends,

the first member and the second member have
5 U-grooves, each with an annular shape, which are formed
to face each other,

the pipe is disposed in the U-grooves such that
the terminal-end faces of the pipe are opposed to each
other at a distance with their centers being aligned,
10 and the pipe is extended along the U-grooves when an
outer periphery of the pipe is pressed by as the first
member and the second member are made to contact each
other, whereby the terminal-end faces of the pipe are
brought into close contact with each other.